

Abstract

5        A system, a method and a component using thermally stimulatable substances  
for the temperature measurement of thermal barrier coatings are provided. The a  
thermal barrier coating comprises a stimulatable substance as high-lighter and a  
substance to adhere the thermal stimulatable substance in the coating. The  
stimulatable substance having emission lines which vary in response to a temperature  
10      of a coated component. For example, the present invention can be used in combustion  
turbines or combustion machines.